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a Hall effect sensor positioned inside said switch housing; and

a magnet carriage positioned inside said switch housing, said magnet carriage movable along a first longitudinal axis relative to said Hall effect sensor and including a first magnet and a second magnet, said first and second magnets facing said Hall effect sensor, being in contact with each other, and each having a respective longitudinal axis that extends generally perpendicular to the first longitudinal axis;

said Hall effect sensor responsive to the positional displacement of said first and second magnets relative to said Hall effect sensor.

- 8. The Hall effect switch of claim 10 further comprising a boot seal between said switch housing and said magnet carriage.
- 9. The Hall effect switch of claim 10 further comprising a return spring for biasing the positional displacement of said magnet carriage.
 - A Hall effect switch comprising:
 - a switch housing;

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- a Hall effect sensor positioned inside said switch housing;
- a magnet carriage positioned inside said switch housing, said magnet carriage movable relative to said Hall effect sensor and having a first magnet and a second

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magnet, said first magnet and said second magnet positioned with opposing polarities facing said Hall effect sensor; and

a clicker ball and a clicker ball aperture, said clicker ball being displaced from a non-actuated position to an actuated position by the positional displacement of said magnet carriage and thereby emitting a perceivable clicking indication;

said Hall effect sensor responsive to the positional displacement of said first and second magnets relative to said Hall effect sensor.

- 11. The Hall effect switch of claim 10 wherein said first and second magnets are positioned in contact with each other.
- 12. The Hall effect switch of claim 10 further comprising at least one additional magnet in said magnet carriage positioned similarly to said first and second magnets.
- 13. A method for contactless switching in a switch housing including a Hall effect sensor and a magnet carriage, said method comprising:

mechanically displacing a magnet carriage along a first longitudinal axis, the magnet carriage having a first magnet and a second magnet, said first and second magnets positioned with opposite polarities facing a Hall effect sensor, being in contact